CIRCUM-ARCTIC RESOURCE ASSESSMENT
GEOLOGIC DATA FORM FOR CONVENTIONAL ASSESSMENT UNITS (Version 5.1, June 4, 2007)

IDENTIFICATION INFORMATION

Assessment Geologist:	T.E. Moore	Date:	22-May-08
Region:	Arctic Ocean	Number:	0
Province:	Lomonosov-Makarov	Number:	0001
Total Petroleum System:	Lomonosov Ridge Mesozoic-Cenozoic Composite	Number:	000101
Assessment Unit:	Makarov Basin Margin	Number:	00010101
Scenario:		Number:	
Based on Data as of:			
Notes from Assessor:			

CHARACTERISTICS OF ASSESSMENT UNIT

Area of assessment unit: 154,697 square kilometers

Minimum assessed accumulation size: 50 mmboe (grown)

No. of discovered accumulations exceeding minimum size: Oil: 0 Gas: 0

Uncertainty Class:	Check One	Number
Producing fields		
Discoveries		
Wells		
Seismic	X	
No seismic		

Median size (grown) of discovered oil accumulations (mmbo):
1st 3rd _____ 2nd 3rd _____ 3rd 3rd _____

Median size (grown) of discovered gas accumulations (bcfg):
1st 3rd _____ 2nd 3rd _____ 3rd 3rd _____

ANALOGS USED IN ESTIMATING INPUT

	Purpose	Analog or Analog Set
1	Number	Passive margin, rifted passive margin
2	Sizes	Passive margin, rifted passive margin
3	Composition	Global statistics
4		

Assessment Unit (name, no.) Makarov Basin Margin, 00010101
Scenario (name, no.)

Scenario Probability: Probability of occurrence (0-1.0)

Assessment-Unit Probabilities: (Adequacy for at least one undiscovered field of minimum size)

Attribute	Probability of occurrence (0-1.0)
1. **CHARGE:** Adequate petroleum charge:	0.4
2. **ROCKS:** Adequate reservoirs, traps, and seals:	0.5
3. **TIMING OF GEOLOGIC EVENTS:** Favorable timing:	0.7
Assessment-Unit GEOLOGIC Probability (Product of 1, 2, and 3):	0.140

UNDISCOVERED ACCUMULATIONS

Number of Undiscovered Accumulations: How many undiscovered accumulations exist that are at least the minimum size?: (uncertainty of fixed but unknown values)

Total Accumulations:	minimum (>0)	1	median	11	maximum	38
Oil/Gas Mix:	minimum (>0)	0.1	mode	0.5	maximum	0.9

X # of oil accumulations / # of total accumulations
____ # of oil accumulations / # of gas accumulations
____ # of gas accumulations / # of oil accumulations

Oil Accumulations:	minimum (>0)	1	median	5	maximum	34
Gas Accumulations:	minimum (>0)	1	median	5	maximum	34

Sizes of Undiscovered Accumulations: What are the sizes (**grown**) of the above accumulations?: (variations in the sizes of undiscovered accumulations)

Oil in Oil Accumulations (mmbo):	minimum	50	median	100	maximum	2000
Gas in Gas Accumulations (bcfg):	minimum	300	median	600	maximum	12000

RATIOS FOR UNDISCOVERED ACCUMULATIONS, TO ASSESS COPRODUCTS

(variations in the properties of undiscovered accumulations)

Oil Accumulations:	minimum	median	maximum
Gas/oil ratio (cfg/bo):	100	1000	20000
NGL/gas ratio (bngl/mmcfg):	5	25	85

Gas Accumulations:	minimum	median	maximum
Liquids/gas ratio (bliq/mmcfg):	5	25	75

Assessment Unit (name, no.) Makarov Basin Margin, 00010101
Scenario (name, no.)

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS
(variations in the properties of undiscovered accumulations)

Oil Accumulations:	minimum		median		maximum
API gravity (degrees):	20		38		55
Viscosity (centipoise)	0.01		3		30
Sulfur content of oil (%):	0		0.3		1.5
Depth (m) of water (if applicable):	1500		2000		3000

	minimum	F75	median	F25	maximum
Drilling Depth (m):	500		2000		4000

Gas Accumulations:	minimum		median		maximum
Inert gas content (%):	0		2		10
Carbon dioxide content (%):	0		1.5		10
Hydrogen sulfide content (%):	0		0.5		3.5
Depth (m) of water (if applicable):	1500		2000		3000

	minimum	F75	median	F25	maximum
Drilling Depth (m):	500		2000		4000

Assessment Unit (name, no.) Makarov Basin Margin, 00010101
Scenario (name, no.)

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ARCTIC AREA

1 North of Arctic Circle

100 area % of the AU

Oil in Oil Accumulations: 100 volume % of the AU
Gas in Gas Accumulations: 100 volume % of the AU

2 South of Arctic Circle

_____ area % of the AU

Oil in Oil Accumulations: _____ volume % of the AU
Gas in Gas Accumulations: _____ volume % of the AU

Assessment Unit (name, no.) Makarov Basin Margin, 00010101
Scenario (name, no.)

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1 Offshore

100 area % of the AU

Oil in Oil Accumulations: 100 volume % of the AU
Gas in Gas Accumulations: 100 volume % of the AU

2 Onshore portion of: _____

_____ area % of the AU

Oil in Oil Accumulations: _____ volume % of the AU
Gas in Gas Accumulations: _____ volume % of the AU

3 Onshore portion of: _____

_____ area % of the AU

Oil in Oil Accumulations: _____ volume % of the AU
Gas in Gas Accumulations: _____ volume % of the AU

4 Onshore portion of: _____

_____ area % of the AU

Oil in Oil Accumulations: _____ volume % of the AU
Gas in Gas Accumulations: _____ volume % of the AU

5 Onshore portion of: _____

_____ area % of the AU

Oil in Oil Accumulations: _____ volume % of the AU
Gas in Gas Accumulations: _____ volume % of the AU

6 Onshore portion of: _____

_____ area % of the AU

Oil in Oil Accumulations: _____ volume % of the AU
Gas in Gas Accumulations: _____ volume % of the AU